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| | | | | Application Number | 10/568,745 |
| | | | | Filing Date | 02-21-06 |
| | | | | First Named Inventor | Mitsuko Ideno |
| | | | | Art Unit | 1644 |
| | | | | Examiner Name | Z. SKELDING |
| Sheet | 1 | of | 8 | Attorney Docket Number | 1422-0709PUS1 |

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| FOREIGN PATENT DOCUMENTS | | | | | | | |
|--------------------------|------------|------------------------------|---|--------------------------------|---|---|--------------------------|
| Examiner Initial * | Cite No. 1 | Foreign Patent Document | | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, columns, Lines, Where Relevant Passages or Relevant Figures Appear | T |
| | | Country ³ Code | Number ⁴ Kind Code (if known) ⁵ | | | | |
| | 5 | WO | 00/09168-A1 | 02-24-2000 | | | <input type="checkbox"/> |
| | 6 | WO | 01/62895-A2 | 08-30-2001 | | | <input type="checkbox"/> |
| | 7 | WO | 03/080817 - A1 | 02-10-2003 | | | <input type="checkbox"/> |
| | 8 | EP | 0409655-A2 | 01-23-1991 | | | <input type="checkbox"/> |
| | 9 | EP | 1424387 - A1 | 06-02-2004 | | | <input type="checkbox"/> |
| | 10 | EP | 1666589 - A1 | 06-07-2006 | | | <input type="checkbox"/> |

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| | | Country ³ Code | Number ⁴ Kind Code (if known) ⁵ | | | | |
| | 11 | JP | 2003-80817 - A | 03-19-2003 | | | <input type="checkbox"/> |
| | 12 | WO | 2004/018667 - A1 | 03-04-2004 | | | <input type="checkbox"/> |
| | 13 | WO | 2005/019450 - A1 | 03-03-2005 | | | <input type="checkbox"/> |
| | 14 | JP | 3-284700-A | 12-16-1991 | | | <input type="checkbox"/> |
| | 15 | JP | 3-80076-A | 04-04-1991 | | | <input type="checkbox"/> |
| | 16 | JP | 5-271291-A | 10-19-1993 | | | <input type="checkbox"/> |

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| | 17 | WO | 97/01194 - A1 | 01-09-1997 | | | <input type="checkbox"/> |
| | 18 | WO | 97/11694 - A1 | 04-03-1997 | | | <input type="checkbox"/> |
| | 19 | WO | 99/33863-A1 | 07-08-1999 | | | <input type="checkbox"/> |
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| NON PATENT LITERATURE DOCUMENTS | | | |
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| Examiner initial * | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
| | 20 | "Animal Cell Culture: A Practical Approach", Edited by R.I. Freshney, IRL Press, Oxford, Washington, D.C., 1986, pp. 26-41 | <input type="checkbox"/> |
| | 21 | ANIMAL CELL CULTURE METHODS, edited by R. Freshney, Moscow, "Mir", 1989, pages 44, 53, 77 (the original English "Animal Cell Culture - A Practical Approach"), edited by R.I. Freshney, IRL Press, Oxford, Washington, D.C. | <input type="checkbox"/> |
| | 22 | BENIGNI, Fabio et al.; Phenotype and Homing of CD4 Tumor-Specific T Cells is Modulated by Tumor Bulk; The Journal of Immunology; 2005, 175, pp. 739-748. | <input type="checkbox"/> |
| | 23 | DARDALHON et al., "Highly efficient gene transfer in naive human T cells with a murine leukemia virus-based vector," Blood, Vol. 96, No. 3, 2000, pp. 885-893. | <input type="checkbox"/> |
| | 24 | FUNARO et al., "Stimulation of T Cells via CD44 Requires Leukocyte-Function-Associated Antigen Interactions and Interleukin-2 Production", Human Immunology, Vol. 40, 1994, pps. 267-278 | <input type="checkbox"/> |
| | 25 | GATTINONI et al., "Acquisition of full effector function in vitro paradoxically impairs the in vivo antitumor efficacy of adoptively transferred CD8+ T cells," J. Clin. Invest., Vol. 115, No. 6, 2005, pp. 1616-1626. | <input type="checkbox"/> |
| | 26 | HALVORSON et al., "alpha4 and alpha5 integrins costimulate the CD3-dependent proliferation of fetal thymocytes," Cell. Immunol., Vol. 189, No. 1, 1998, pp. 1-9. | <input type="checkbox"/> |
| | 27 | HIBINO et al., "Tenascin Suppresses CD3-Mediated T Cell Activation", Biochemical and Biophysical Research Communications, Vol. 250, 1998, pp. 119-124. | <input type="checkbox"/> |
| | 28 | IDENO et al., "RetroNectin® Kumiawaseta T Saibo Kakudai Baiyo (II): Kakudai Baiyo sareta T Saibo Shudan wa NaiveT-yo Saibo no Hiritsu ga Takaku, Takai Kogen Nishikino o Hakki," Dai 65 Kai Annual Meeting of the Japan Cancer Association Kiji, 2006, pp. 330. | <input type="checkbox"/> |
| | 29 | IDENO et al., "Soshikita Human Fibronectin Fragment Shigeki ni yoru Kasseika CTL no Tairyo Expansion-ho," Dai 62 Kai Annual Meeting of the Japan Cancer Association Kiji, 2003, pp. 175. | <input type="checkbox"/> |

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| Examiner initial * | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
| | 30 | International Search Report in International Application No. PCT/JP02/08298 mailed December 3, 2002 | <input type="checkbox"/> |
| | 31 | JPO International Search Report, Appl. No. PCT/JP2006/315881, October 10, 2006 | <input type="checkbox"/> |
| | 32 | JPO International Search Report, Appl. No. PCT/JP2006/319105, January 9, 2007 | <input type="checkbox"/> |
| | 33 | Kim YOUNG-JUNE et al., "4-1BB Costimulation Promotes Human T Cell Adhesion to Fibronectin", Cellular Immunology 192, 13-23 (1999) | <input type="checkbox"/> |
| | 34 | KOBERDA et al., "Effect of anti-CD3/anti-CD28/interleukin-2 stimulation of mononuclear cells on transforming growth factor B inhibition of lymphokine-activated killer cell generation," J. Cancer Res. Clin. Oncol., Vol. 119, 1993, pp. 131-136. | <input type="checkbox"/> |
| | 35 | MATSUYAMA et al., "Activation of CD4 cells by fibronectin and anti-CD3 antibody. A synergistic effect mediated by the VLA-5 fibronectin receptor complex," J. Exp. Med., Vol. 170, No. 4, 1989, pp. 1133-1148. | <input type="checkbox"/> |
| | 36 | MIKAMO, "Bulk Culture of Human Lymphocytes", Cell Technology, 1995, 14:2, 223-227. Not in English Language | <input type="checkbox"/> |
| | 37 | MOSHER, Deane F., Fibronectin, Academic Press Inc., 1-24, authored by Deane F. Mosher, published in 1988. | <input type="checkbox"/> |
| | 38 | MURAKI et al., "Retronectin® Kumiawaseta T Saibo Kakudai Baiyo (I): Kakudai Baiyo ga Anteika shi, NaiveT-yo Saibo ga Kohiritsu de Zoshoku," Dai 65 Kai Annual Meeting of the Japan Cancer Association Kiji, 2006, pp. 330. | <input type="checkbox"/> |
| | 39 | Office Action in Chinese Application No. 200480024172.7 mailed January 15, 2010, including English translation. | <input type="checkbox"/> |

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| | 40 | Office Action in Chinese Application No. 200480024172.7 mailed November 30, 2007, including English translation. | <input type="checkbox"/> |
| | 41 | RAO, W. H. et al, "Potent Costimulation of Effector T Lymphocytes by Human Collagen Type I," J Immunol, 2000, vol. 165, pp. 4935-4940 | <input type="checkbox"/> |
| | 42 | Retronectin, 2010, Takara Bio. Inc., http://catalog.takara-bio.co.jp/en/PDFFiles/T100A_B_e.pdf . p.1-8 | <input type="checkbox"/> |
| | 43 | SAGAWA et al., "Ko-CD3 Kotai to RetroNectin??o Kumiawaseru Koto ni yoru LAK Saibo Inyu Ryoho no Kairyo," Dai 62 Kai Annual Meeting of the Japan Cancer Association Kiji," 2003, pp. 438. | <input type="checkbox"/> |
| | 44 | SEKINE, "Expansion of Lymphocytes by Culture with Immobilized Anti-CD3 Monoclonal Antibody and Interleukin-2 for Use in Adoptive Immunotherapy of Cancer Patients", Saibo Baiyo (Cell Culture), Vol. 17, No. 6, 1991, pp. 192-195. | <input type="checkbox"/> |
| | 45 | SHUQIN et al., "Induction of Allogenic Cytotoxic T Lymphocytes and Their Culture", Journal of South China Normal University (Natural Science Edition), No. 4, 1994, pp. 11-17 (including partial English language translation) | <input type="checkbox"/> |
| | 46 | SIMON, Markus M. et al., The outer surface lipoprotein A of Borrelia burgdorferi provides direct and indirect augmenting/co-stimulatory signals for the activation of CD4+ and CD8+ T cells", Immunol. Lett., 1995, Vol. 46, No. 3, pp. 137-142. | <input type="checkbox"/> |
| | 47 | STOHL et al., "Generation of Cytolytic Activity with Anti-CD3 Monoclonal Antibodies Involves Both IL-2-Independent and -Dependent Components", J. Immunol., Vol. 144, No. 10, May 15, 1990, pp. 3718-3725 | <input type="checkbox"/> |
| | 48 | STURM, A., et al, "Dual Function of the Extracellular Matrix: Stimulatory for Cell Cycle Progression of Naive T Cells and Antiapoptotic for Tissue-Derived Memory T Cells," The Journal of Immunology, 2004, vol. 173, pp. 3889-3900 | <input type="checkbox"/> |
| | 49 | Supplementary European Search Report issued by the EPO in corresponding European Application No. 06782667.7 on September 16, 2009. | <input type="checkbox"/> |

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| | 50 | TAKAYAMA et al., "Adoptive immunotherapy to lower postsurgical recurrence rates of hepatocellular carcinoma: a randomised trial", The Lancet, Vol. 356, 2000, pp. 802-807 | <input type="checkbox"/> |
| | 51 | US Office Action for Application No. 10/344,534, dated November 6, 2009 | <input type="checkbox"/> |
| | 52 | US Office Action for Application No. 10/344,534, mailed May 13, 2008 | <input type="checkbox"/> |
| | 53 | US Office Action for Application No. 10/344,534, November 24, 2009 | <input type="checkbox"/> |
| | 54 | US Office Action for Application No. 10/486,512, dated June 25, 2004 | <input type="checkbox"/> |
| | 55 | US Office Action for Application No. 10/509,055, dated May 11, 2007 | <input type="checkbox"/> |
| | 56 | US Office Action for Application No. 10/509,055, mailed February 10, 2011 | <input type="checkbox"/> |
| | 57 | US Office Action, dated August 31, 2010, for US Application No. 11/990,443 | <input type="checkbox"/> |
| | 58 | US Office Action, dated December 28, 2010, for US Application No. 11/992,661 | <input type="checkbox"/> |
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| | | | | Application Number | 10/568,745 |
| | | | | Filing Date | 02-21-06 |
| | | | | First Named Inventor | Mitsuko Ideno |
| | | | | Art Unit | 1644 |
| | | | | Examiner Name | Z. SKELDING |
| Sheet | 8 | of | 8 | Attorney Docket Number | 1422-0709PUS1 |

| NON PATENT LITERATURE DOCUMENTS | | | |
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| Examiner initial * | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
| | 60 | US Office Action, dated July 6, 2011, for US Application No. 10/509,055 | <input type="checkbox"/> |
| | 61 | US Office Action, dated June 9, 2011, for US Application No. 11/992,661 | <input type="checkbox"/> |
| | 62 | US Office Action, dated March 16, 2011, for US Application No. 11/990,443 | <input type="checkbox"/> |
| | 63 | US Office Action, dated October 14, 2010, for US Application No. 11/992,661 | <input type="checkbox"/> |
| | 64 | WHITESIDE et al., "Isolation of Human NK Cells and Generation of LAK Activity, Current Protocols in Immunology", 1996, Supp. 17, Unit 7.7, pages 7.7.1-7.7.11. | <input type="checkbox"/> |
| | 65 | WILLIAMS et al., "Fibronectin and VLA-4 in haematopoietic stem cell-microenvironment interactions," Letters to Nature, Vol. 352, 1991, pp. 438-441 | <input type="checkbox"/> |
| | 66 | WILLS, M. R., et al, "Identification of Naive or Antigen-Experienced Human CD8+ T Cells by Expression of Costimulation and Chemokine Receptors: Analysis of the Human Cytomegalovirus-Specific CD8+ T Cell Response," The Journal of Immunology, 2002, vol. 168, pp. 5455-5464 | <input type="checkbox"/> |
| | 67 | ZHOU et al., "Molecular Mechanisms Underlying Differential Contribution of CD28 Versus Non-CD28 Costimulatory Molecules to IL-2 Promoter Activation," The Journal of Immunology, Vol. 168, 2002, pp. 3847-3854 | <input type="checkbox"/> |
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| | | | |
|--------------------|--------------------|-----------------|------------|
| Examiner Signature | /Zachary Skelding/ | Date Considered | 08/30/2011 |
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